

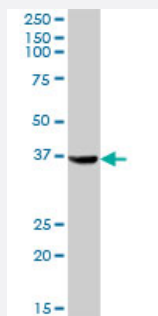
MaxPab®

AKR1C4 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00001109-B01P

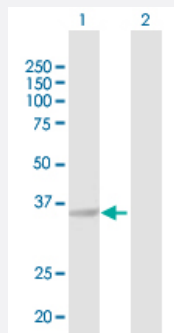
Size 50 ug

Applications



Western Blot (Tissue lysate)

AKR1C4 MaxPab polyclonal antibody. Western Blot analysis of AKR1C4 expression in human liver.



Western Blot (Transfected lysate)

Western Blot analysis of AKR1C4 expression in transfected 293T cell line ([H00001109-T01](#)) by AKR1C4 MaxPab polyclonal antibody.

Lane 1: AKR1C4 transfected lysate(35.53 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human AKR1C4 protein.

Immunogen

AKR1C4 (AAH20744.1, 1 a.a. ~ 323 a.a) full-length human protein.

Sequence

MDPKYQRVELNDGHFMPVLGFGTYAPPEVPRNRAVEVTCLAIEAGFRHIDSAYLYNNEEQVGLAIR
SKIADGSVKREDIFYTSKLWCTFFQPQMVQPALESSLKKLQLDYVDLYLLHFPALKPGETPLPK
DENGKVFIDTVDSLATWEVMEKCKDAGLAKSIGVSNFNRYRQLEMILNKPGLKYKPVCNQVECHPY
LNQSKLLDFCKSKDMLVAHSALGTQRHKLWVDPNSPVLLDPVLCALAKKHKRTPALIALRYQLQ
RGVVVLAQSYNEQRIRENIQVFEFQLTSEDMKVLGDGLNRNYRVVMDFLMDHPDYPFSDEY

Host

Mouse

Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

AKR1C4 MaxPab polyclonal antibody. Western Blot analysis of AKR1C4 expression in human liver.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of AKR1C4 expression in transfected 293T cell line ([H00001109-T01](#)) by AKR1C4 MaxPab polyclonal antibody.

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Lane 2: Non-transfected lysate.

[Protocol Download](#)

Gene Info — AKR1C4

Entrez GeneID	1109
GeneBank Accession#	BC020744.1
Protein Accession#	AAH20744.1
Gene Name	AKR1C4
Gene Alias	3-alpha-HSD, C11, CDR, CHDR, DD4, HAKRA, MGC22581
Gene Description	aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)
Omim ID	600451
Gene Ontology	Hyperlink

Gene Summary

This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the bioreduction of chlordane, a toxic organochlorine pesticide, to chlordane alcohol in liver. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. [provided by RefSeq]

Other Designations

3 alpha-hydroxysteroid dehydrogenase/dihydrodiol dehydrogenase 4[OTTHUMP00000018997]aldo-keto reductase family 1, member C4[chlordane reductase[dihydrodiol dehydrogenase 4[dihydrodiol dehydrogenase isozyme DD4]type I 3-alpha-hydroxysteroid dehydrogenase

Publication Reference

- [Proteasome inhibitors MG-132 and bortezomib induce AKR1C1; AKR1C3; AKR1B1; and AKR1B10 in human colon cancer cell lines SW-480 and HT-29.](#)

Ebert B, Kisiela M, Wsol V, Maser E.

Chemico-biological Interactions 2011 May; 191(1-3):239.

Application: WB-Ce, Human, Caco-2, HT-29, HCT116, SW-480, A549, PANC-1, A431, HepG2 cells

Pathway

- [Androgen and estrogen metabolism](#)
- [C21-Steroid hormone metabolism](#)
- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)
- [Primary bile acid biosynthesis](#)

Disease

- [Alzheimer Disease](#)
- [Atherosclerosis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
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- [Lung Neoplasms](#)
- [Obesity](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)